

Precision Flight Controls, Inc.

Serial Digital Avionics and FSX Setup Guide



Preface

This setup guide will walk you through the necessary steps to setup your Serial Digital Avionics with Microsoft Flight Simulator X. For connection diagram please refer to diagrams towards the end of this manual.

This setup guide assumes that you have already installed Microsoft Flight Simulator X (FSX) and have at least run it once. If you have not installed and run FSX software, please install it now then run it at least once. Then refer to this guide once done. For reference on software installation, please refer to the software manual that you have received.

INSTALLATION OF PFC DRIVER (DLL)

The PFC Serial Device Driver for FSX, which includes the PFC.dll and FSUIPC.dll, is the software that allows serial Precision Flight Controls, Inc. devices to communicate and work with Microsoft Flight Simulator 2004 and Microsoft Flight Simulator X. Because of the internal difference between the FS2004 and FSX please make sure that you have downloaded the appropriate PFC Driver for the software that you are using.

- 1. Download the PFC Serial FS2004 Driver from our site: PFC Serial Driver for FSX
- 2. When you click on the link it will ask where you want to save the file, make sure that you save it on your Desktop.
- 3. Now that you have downloaded the driver please close your browser.
- On your desktop, please look for the PFC_Serial_FS2004_Driver.exe, and double click on it.
- 5. Click on Next.



 Read the license agreement. You will need to Accept the agreement to be able to use the driver. If you do not agree click on Cancel and contact us. If you have agree click on Next.

P	lease read the following important information before continuing.
Pa	lease read the following License Agreement. You must accept the terms of this greement before continuing with the installation.
	MPORTANT: THIS SOFTWARE END USER LICENSE AGREEMENT ("EULA") S A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR, IF "URCHASED OR OTHERWISE ACQUIRED BY OR FOR AN ENTITY. AN ENTITY AND PRECISION FLIGHT CONTROLS. READ IT CAREFULLY BEFORE TOPROVDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS. BY SELECTING THE INSTALL NOW BUTTON AND/OR USING THE SOFTWARE, YOU ARE ZONFIRMING YOUR ACCEPTANCE OF THE SOFTWARE, AND AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THESE TERMS. THEN DO NOT INSTALL OR USE
0	I accept the agreement
0	I do not accept the agreement

7. Now click on Install.

Setup - pfc driver	
Ready to Install Setup is now ready to begin instal	ng pfc driver on your computer.
Click Install to continue with the in	stallation.
	< Back Install Cancel

8. Now click on **Next** then **Finish**.



Getting the COM Port information:

The COM port or serial port is a port used by the Serial Digital Avionics to communicate to Microsoft Flight Simulator. It is important to know the correct COM port number that your Cirrus II is connected to. This information will be necessary for proper communication between Microsoft Flight Simulator and Serial Digital Avionics. The steps below will guide you to find out the correct com port number.

- 1. Let's go to Start, Control Panel
- 2. Do you see **Pick a Category** or do you see icons such as Accessibility, Add/Remove **Programs?**
- 3. If you are seeing **pick a category**, then choose **Performance & Maintenance** then choose **System**
- 4. If you are seeing icons such as Accessibility, Add/Remove Programs, choose System
- 5. From the Systems Window, choose Hardware then Device Manager
- 6. Expand the Ports list by clicking on the plus (+) sign
- Make a note of the com port numbers as you will need this later in your setup.
 a. My COM Port number/s :_____ and _____
- 8. Go ahead and close the System Window as well as the Control Panel Window

Hardware Setup

- 9. Let's start Flight Simulator
- 10. Once it has completely started, choose Create a Flight.
- 11. Then click on **Fly Now!**
- 12. Once the flight sim should show a PFC Control Connections Check window.

PFC Control Connections Check	×	PFC Control Connections Check	×	
Checking	operation of the PFC equipment:	Checking operation of the PFC equipment:		
Version of supporting FSUIPC module:	FSUIPC is okay. All options available: 3.470 🛛 🗸	Version of supporting FSUIPC module:	FSUIPC is okay. All options available: 3.470 🗸	
COM serial port port connection:	COM1 open okay 🗸	COM serial port port connection:	COM1 open okay 🗸	
Yoke-aileron control:	>>>>>>>>No results seen at all!	Yoke-aileron control:	Okay!	
Yoke-elevator control:	>>>>>>>> No results seen at all!	Yoke-elevator control:	Okay! 🗸	
Pedals-rudder control:	>>>>>>>> No results seen at all!	Pedals-rudder control:	Okay! 🗸	
Throttle quadrant operation:	>>>>>>>>No results seen at all!	Throttle quadrant operation:	Okay!	
Avionics / radio stack connection:	>>>>>>>>> No expected results received!	Avionics / radio stack connection:	>Okay!	
Mode Control Panel (MCP) connection:	>>>>>>>>> No expected results received!	Mode Control Panel (MCP) connection:	>>>>>>>>> No expected results received!	
Project Magenta CDU connection:	>>>>>>>>> Neither PM CDU nor RCDU seen!	Project Magenta CDU connection:	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
Press RETRY, a	and move or fix controls within 8 seconds	Press RETRY, and move or fix controls within 8 seconds		
PFC driver version 1.92	Retry Quit FS Continue FS	PFC driver version 1.92	Retry Quit FS Continue FS	

- 13. Choose the com port which is Com port which is the port that your hardware is connected to.
- 14. It should say COM (x) open-okay. If it does not say OK look at your notes and see what number your com ports are. If there is more than one, you will need to select on the list and click on retry.

- 15. If you are only installing the PFC Serial Digital Avionics you will only get a green check on the **Avionics/Radio Stack connection.**
- 16. Click on **Continue FS**.
- 17. Exit FS2004 and Restart to save the settings.

PFC CIRRUS II, PFC SERIAL DIGITAL AVIONICS, AND PFC CIRRUS PEDALS INSTALLATION



PFC SERIAL DIGITAL AVIONICS PANEL

THE BACK OF YOUR COMPUTER



PFC DIGITAL THROTTLE QUADRANT CONSOLE PFC SERIAL DIGITAL AVIONICS AND PFC CIRRUS PEDALS INSTALLATION

